

Lesson 1

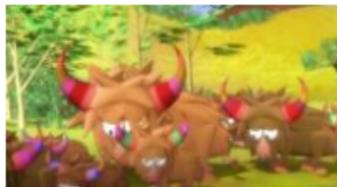
In this lesson the children will learn about turns. We have already been learning about these so they will remember lots of things from our lessons at school.

After this lesson they will use this information to learn new things.

There are some optional resources to print off, but you do not need to as you could ask your child to write their answers on a piece of paper or talk through their ideas with a grown up. The key vocabulary is included on the slides with drawings and clips to help explain what each word means.

Have a great lesson!

Click on the link. <https://www.bbc.co.uk/bitesize/clips/z7kwmp3>



Watch the video and listen carefully.

At the end can you think of the different words you heard that were about changing direction and making turns?

Let's practise left and right.



Can you complete the sentences? Remember to count the squares too!

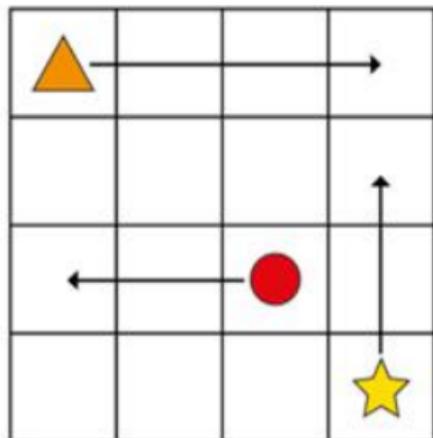
The arrows show where the shapes are moving to on the grid.

Use the word bank to help you complete the sentences.

up

left

right



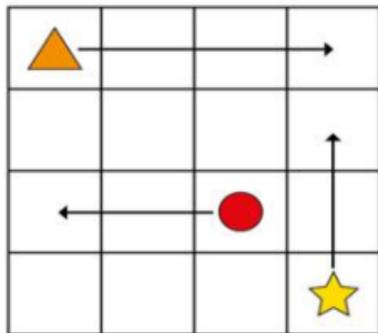
The triangle is moving squares _____.

Can you complete the sentences?
Remember to count the squares too!

up

left

right



The star is moving squares _____.

The circle is moving squares _____.

We will now practise making turns.

full turn

half turn

quarter turn

Can you stand up and
make these turns?

three quarter turn

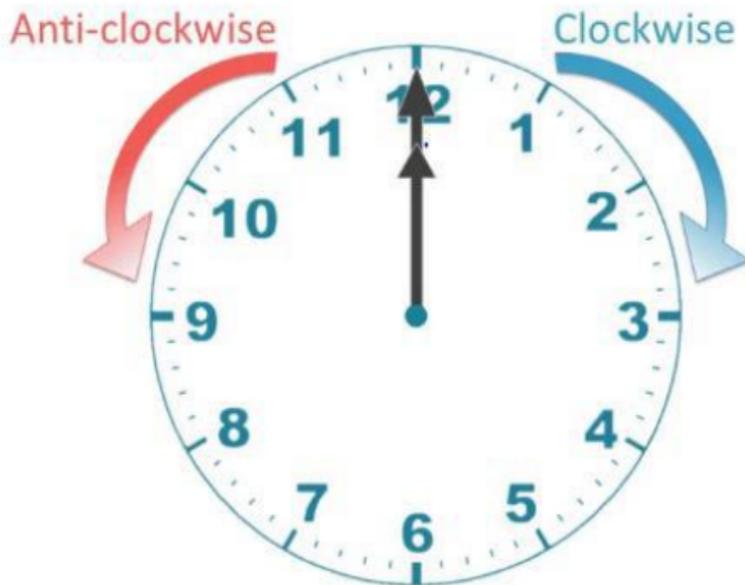
Now it gets a bit harder. Can you make these turns, but this time make sure you turn in the correct direction? Use the clock face to help you.

quarter turn
clockwise

quarter turn
anticlockwise

three-quarter turn
clockwise

three-quarter turn
anticlockwise

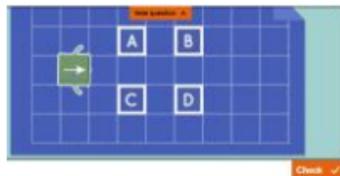


Watch this clip to remind you how we can use these turns to give directions.

<https://www.bbc.co.uk/bitesize/topics/z2grd2p/articles/zwv6b82>



There is a quick game to play if you have time. Scroll down to find it.



This activity is available to print if you would like to add the words to the sheet. However, you could write the words onto a piece of paper.

Complete the sentences to describe how the animals have moved.

start 		finish 	finish 
	start 		
		start 	finish 
finish 			start 



The spider has made a _____ turn and moved forward _____.



The butterfly has moved _____ 3 and made a quarter turn _____.

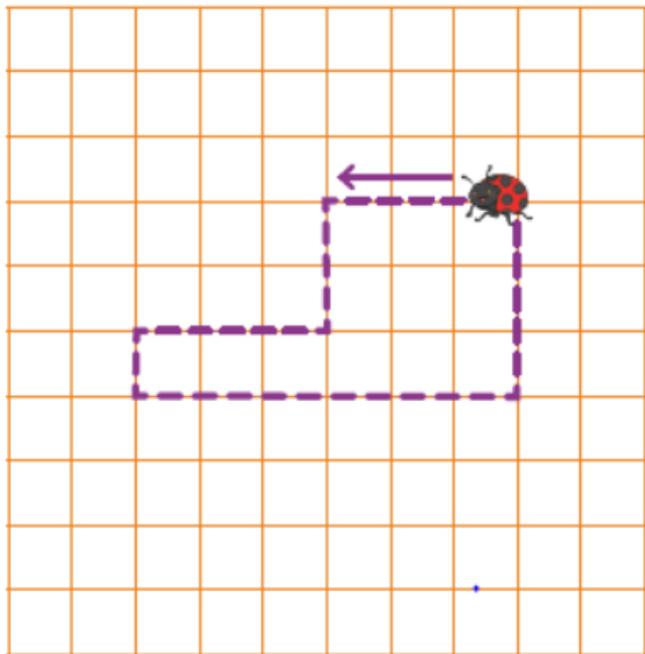
The ant has made a _____ turn clockwise and moved forward _____.




The ladybird has moved _____ 2, made a _____ turn and then moved forward _____.

This activity is available to print if you would like to add the words to the sheet. However, you could write the words onto a piece of paper.

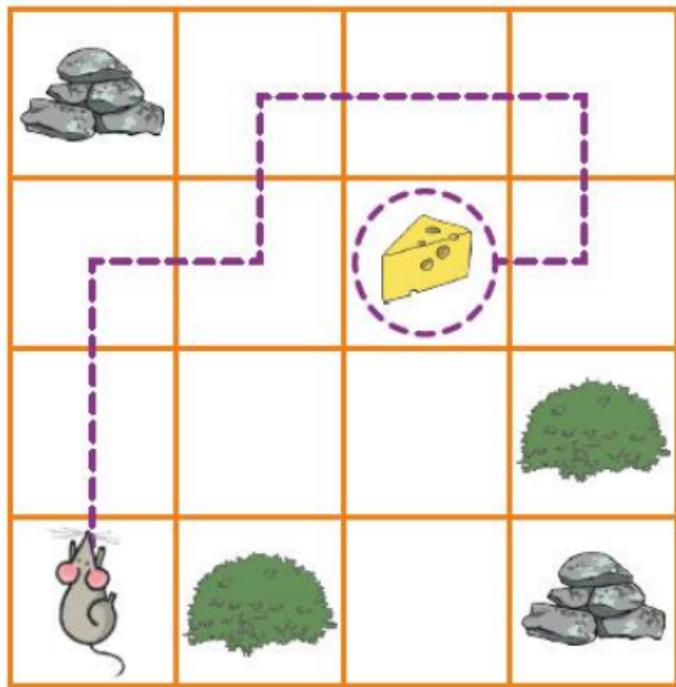
The ladybird is going to move all around the shape and back to where it started.



Describe the route the ladybird takes.

Great Job!

Well done, you have remembered so much of our learning!



Can you write instructions from the mouse to the cheese?

Is there another way?

full turn half turn
quarter turn
three quarter turn
Clockwise
anti-clockwise

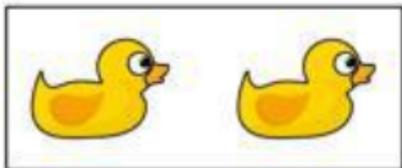
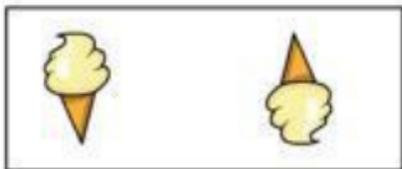
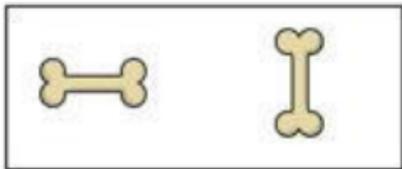
Lesson 2

In this lesson the children will learn that a quarter turn can also be called a right angle turn. They will use a pencil or something similar to practise making right angle turns both clockwise and anticlockwise. In the following slides they will look at shapes that have been turned to form a pattern. They will need to understand what turn has taken place and if it is clockwise and anticlockwise. There are sometimes more than one correct answer. This could be discussed and explained if appropriate.

They will then use this knowledge to create a pattern. You can do this in different ways. They could cut out shapes and glue them to a piece of paper or carefully draw the patterns.

Enjoy your learning

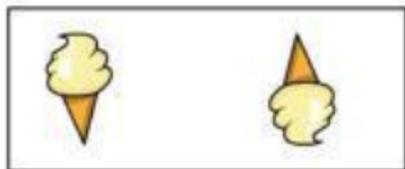
Look at the pictures.
What turns have they made?



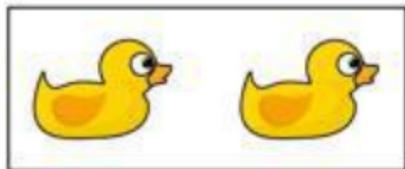
How did you do?



Quarter turn

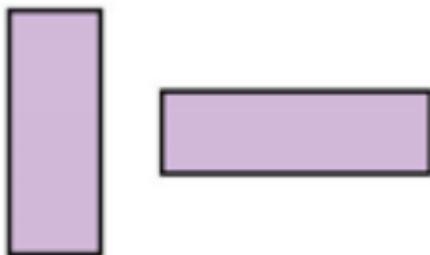


Half turn



Full turn

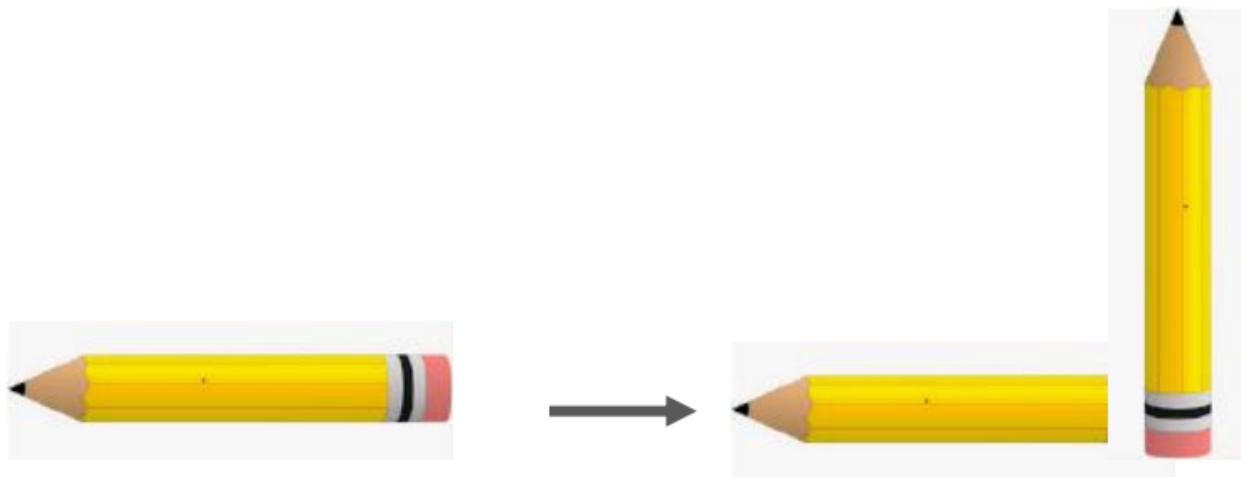
We know that this shape has turned.
We know that it has made a **quarter**
turn.



Today we are learning that it can also be
called a **right angle turn.**

Can you take a pencil or a straight stick and practise making right angle turns.

You can turn it clockwise or anti-clockwise.



This shape has been turned. How has it been turned?

Can you draw what the next shape would look like?

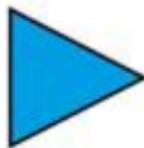
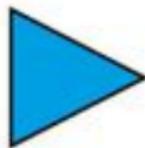
a)



This shape has been turned. How has it been turned?

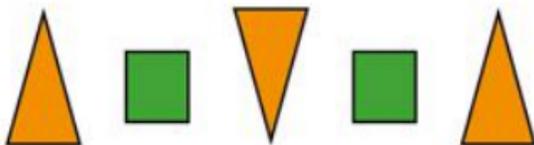
Can you draw what the next shape would look like?

b)

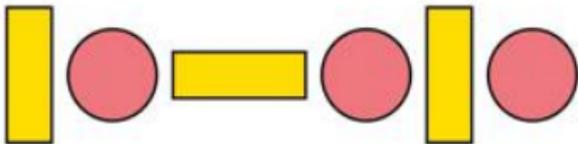


Now there are 2 shapes in the pattern.
What will the next 2 shapes be?

c)



d)



Challenge

Tommy is describing a pattern.

He uses a triangle. He turns it a right angle turn clockwise every time

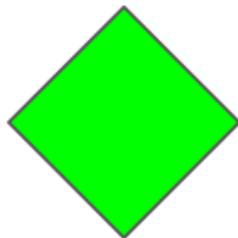
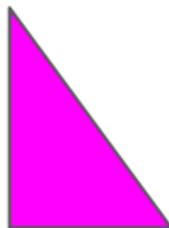
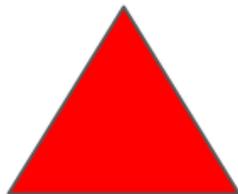


Draw the first five shapes in Tommy's pattern.

Now it's your turn.
Pick a shape and make a pattern using right angle
turns.

Challenge 1 - Can you make a pattern with more than one
shape?

Challenge 2 - Can you make a pattern that has right
angle turns that are clockwise and anticlockwise?



Lesson 3

In this lesson the children will learn that right angles are also found in shapes. They will learn to identify if an angle is a right angle by making and using a simple right angle finder.

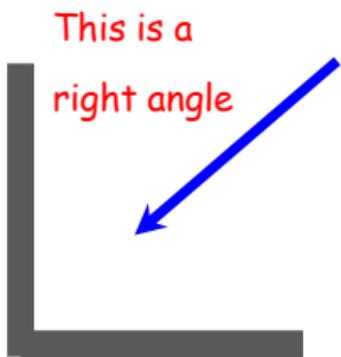
Their activity is to look for different objects in their home that have right angles. We would like 1 piece of maths work to be uploaded to *Google Classroom*. We would love to see what the children found.

Right angles on shapes!

You have learnt that objects and shapes can make right angle turns, but they are also seen on shapes.



This is a right angle...



A right angle is what we call a special corner when two lines or sides of a shape meet.

When it is a right angle the lines or sides meet to make a perfect **L** corner shape.

This is how people show that they have found a right angle



Can you find right angles in you home?

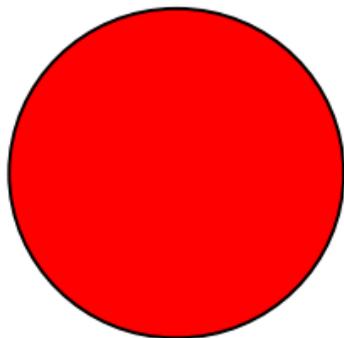
Make a right angle finder to help you check!

Cut out a circle

Fold it in half

Fold it in half again.

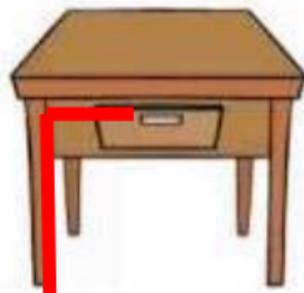
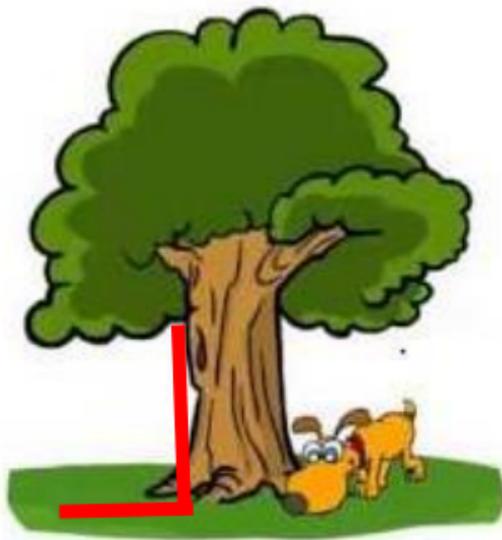
Now you can check for right angles.



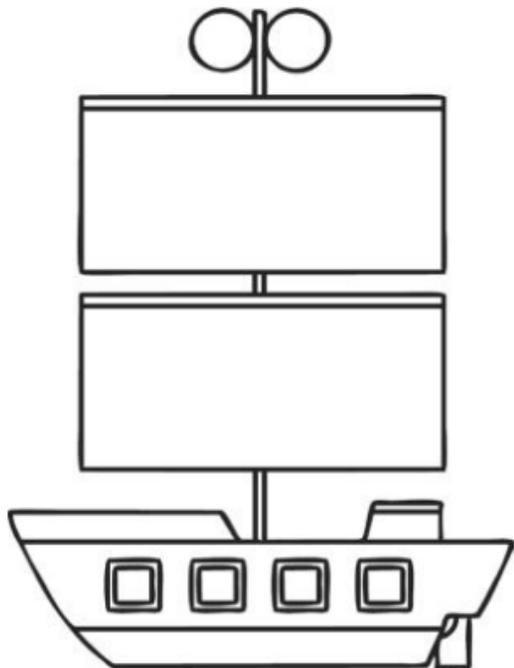
There are many right angles all around us.
How many can you find?

You could draw the objects or take a photo.

Keep
looking!
Here are
some
ideas



Final Challenge - How many right angles can you see?



I think I have counted 10.
Am I correct?
How many can you see?

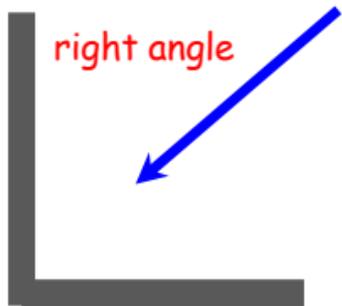
Lesson 4

The children have practically found right angles. Today they have a problem solving activity. They will need a small quantity of pencils or lollipop sticks.

They are going to be challenged to arrange the pencils to create different numbers of right angles. This could be shared with the teacher by uploading a photo of what they did. Please remember the expectation is only 1 piece of maths work needs to be shared in a week.

Right angles

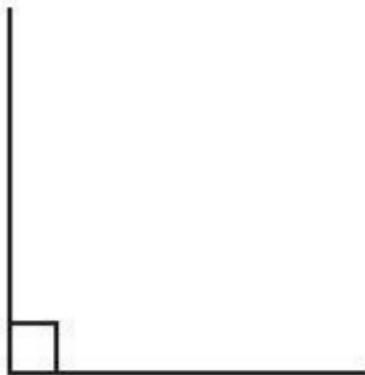
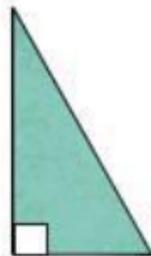
This is a
right angle



A right angle is what we call a special corner when two lines or sides of a shape meet.

When it is a right angle the lines or sides of a shape meet to make a perfect **L** corner shape.

Look at these shapes.



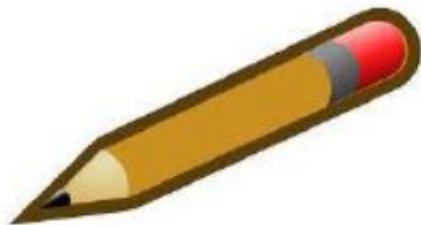
They each have a special type of angle called a **right angle** in one or more of their corners.



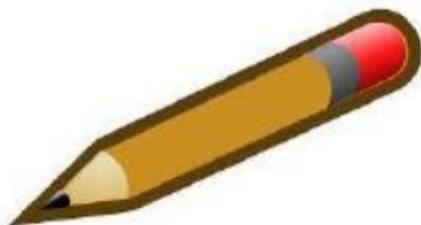
Which shapes have right angles?



How can you place two pencils to make just one right angle?



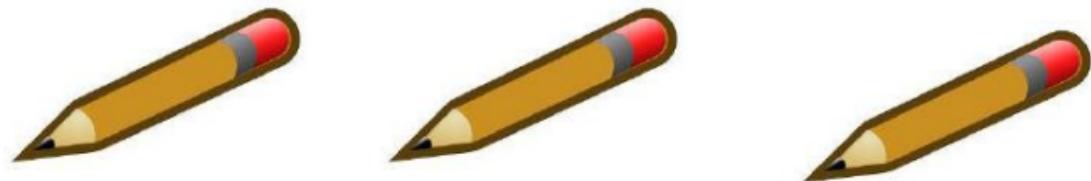
Now make iust two riight angles using the two pencils.



Can you make three right angles? Four right angles?

Right angle challenge

You are allowed to use 3 pencils.
Can you arrange the pencils so that you
make as many right angles as possible?



Keep moving the pencils around to check if you
have made the best choice!

Lesson 5

In this lesson the children will practise doubling numbers. They should be starting to know these facts and recall them with more speed and accuracy.

There is a game that they can play that develops their fluency and their understanding of how doubling and halving is linked.

Please play the more challenging game if you feel your child is ready.

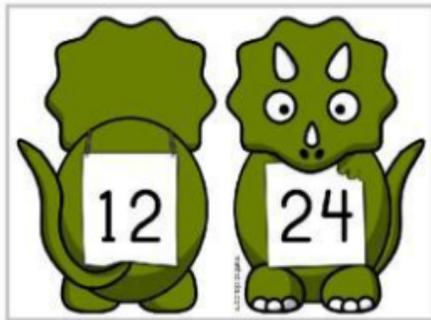
Dastardly Doublers

1. Partner 1 rolls a dice and doubles it. (eg, roll a 4 and double it to make 8)
2. Partner 2 has to work out what the original number was on the dice by halving it. (Eg, half of 8 is 4)
3. Swap roles.

To extend: double the number twice. E.g., if the original number was 3, it becomes 6 and then 12.

Game requires a dice. The link below has a virtual dice.

<https://nrich.maths.org/6717>



Mental Maths

The mental maths this week will be recapping:

1. Doubling numbers and begin to fluently recall the answers (e.g., $1+1$ up to $15+15$).
1. Recalling the $\times 2$ $\times 5$ $\times 10$ times tables fluently.

The next slide will give you some ideas to help you with these different skills.

Below is a useful website for both doubling and multiplying.

Hit the Button can be changed to suit either and helps practice fluency.

<https://www.topmarks.co.uk/maths-games/hit-the-button>



Thank you to all the children and grown ups for all your hard work this week!